

```

MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL

```

[illegible]

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VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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```
0001      PROGRAM CVTMSG
0002      C
0003      C Version:      'V04-000'
0004      C
0005      C*****
0006      C*
0007      C*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0008      C*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0009      C*  ALL RIGHTS RESERVED.
0010      C*
0011      C*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0012      C*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0013      C*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0014      C*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0015      C*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0016      C*  TRANSFERRED.
0017      C*
0018      C*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0019      C*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0020      C*  CORPORATION.
0021      C*
0022      C*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0023      C*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0024      C*
0025      C*
0026      C*****
0027      C
0028      C---
0029      C
0030      C Abstract:
0031      C
0032      C The following is a mutation of SYSMSG.FOR for the purpose of translating
0033      C MDL message file data into syntax appropriate for the Message File Compiler
0034      C
0035      C Author: Tim Halvorsen, Dec 1980
0036      C
0037      C Modified by:
0038      C
0039      C      V004      TMH0004      Tim Halvorsen      20-Jan-1981
0040      C              Output /MACRO whenever the macro suffix is non-null
0041      C              as well as when the macro name is different.
0042      C              Use macro name prefix on single C constructs with $C_
0043      C              infix rather than no prefix at all, which is incorrect.
0044      C
0045      C      V003      TMH0003      Tim Halvorsen      19-Jan-1981
0046      C              Accept macro name suffixes and output them correctly
0047      C              when generating a /MACRO=macnam construct.
0048      C
0049      C      V002      TMH0002      Tim Halvorsen      22-Oct-1980
0050      C              Fix OPEN_OUTPUT to extract file name portion of output
0051      C              filespec correctly when no directory portion is present.
0052      C
0053      C      001      TMH0001      Tim Halvorsen      10-Mar-1980
0054      C              Generate .LITERAL statement for MDL C constructs
0055      C---
0056      C
0057      C
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0158
0159      400      CALL SKIPV
0160              GOTO 100
0161
0162      2000      CLOSE (UNIT=3)
0163              IF (ERRCNT.NE.0) THEN
0164                  TYPE 2299,ERRCNT
0165              END IF
0166              CALL EXIT
0167
0168      2299      FORMAT(' Errors detected:',15)
0169              END

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	329	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	50	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	144	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	65071	

ENTRY POINTS

Address	Type	Name
0-00000000		CVTMSG

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	L*1	GETNUM	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000004	I*4	SYNTAX									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000001D	60	0-00000033	70	0-000000E0	90	0-00000046	100	0-000000EB	200	0-000000F5	300
0-000000FF	400	0-00000109	2000	1-0000001C	2299'						

GET

[illegible]

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
L*1	ERROR GETLIN STRUCT	L*1	EVALC MAKSUBS UNBLNK	L*1	FOR\$CLOSE NEXTFILE		FOR\$EXIT OPEN_OUTPUT	L*1	GENCMP SETUPFILE
								L*1	GETIDENT SKIPV

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VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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```
0001      C
0002      C
0003      C
0004      C
0005      SUBROUTINE MAKSUBS
0006      INCLUDE 'SRC$:CVTMSGCOM'
0050      LOGICAL*1 FACNAM(MAXSYMSIZ)
0051
0052      DO 10 I=1,MAXFAC+1
0053 10      FACILITIES(1,I)=0
0054
0055      OPEN (UNIT=1,NAME='SUBSYSIDS',TYPE='OLD',READONLY,ERR=900)
0056
0057 100      READ(1,99,END=400) FACNUM,FACLEN,(FACNAM(I),I=1,FACLEN)
0058 99      FORMAT(15,Q,120A1)
0059      IF (FACLEN.GT.MAXSYMSIZ-1) THEN
0060          FACNAM(MAXSYMSIZ)=0
0061          CALL ERROR(14,SUBNAMLONG)
0062      END IF
0063      FACNAM(FACLEN+1)=0
0064      CALL MOVNAM(FACNAM,FACILITIES(1,FACNUM+1))
0065      GOTO 100
0066
0067 400      CLOSE(UNIT=1)
0068      RETURN
0069
0070 900      CALL ERROR(15,FILNOTFND)
0071      RETURN
0072      END
```


PROGRAM SECTIONS

Name	Bytes	Attributes									
0 \$CODE	190	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 \$PDATA	26	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 \$LOCAL	136	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64900									

ENTRY POINTS

Address	Type	Name
0-00000000		MAKSUBS

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000028	I*4	FACLEN	2-00000024	I*4	FACNUM
2-00000030	I*4	FILNOTFND	2-00000020	I*4	I	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-0000002C	I*4	SUBNAMLONG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
2-00000000	L*1	FACNAM	32	(32)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
**	10	1-00000012	99'	0-00000030	100	0-000000AC	400	0-000000B5	900

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

Type	Name
	ERROR

Type	Name
	FOR\$CLOSE

Type Name
FOR\$OPEN

Type	Name
	MOVNAM

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VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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0001
0002
0003
0004
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0049
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0051
0052
0053

C
C
C

OPEN THE FILE CONTAINING THE LIST OF FILES

SUBROUTINE SETUPFILE

INCLUDE 'SRC\$CVTMSGCOM'

OPEN (UNIT=3,NAME='FILES',TYPE='OLD',READONLY,ERR=100)

RETURN

CALL ERROR(9,FILNOTFND)

RETURN

END

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ENT

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	30	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	10	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	56	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64644	

ENTRY POINTS

Address	Type	Name
0-00000000		SETUPFILE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	FILNOTFND	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-00000015	100

SETUPFILE

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 11

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR		FOR\$OPEN

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L 7
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 LOGICAL FUNCTION NEXTFILE*1
0005 INCLUDE 'SRCS:CVTMSGCOM'
0049 50 CLOSE (UNIT=1)
0050 NEXTFILE=.FALSE.
0051 99 READ(3,99,END=300) I,FSPEC
0052 99 FORMAT(Q,80A1)
0053 FSPEC(I+1)=0
0054 OPEN (UNIT=1,NAME=FSPEC,TYPE='OLD',READONLY,ERR=100)
0055 NEXTFILE=.TRUE.
0056 300 RETURN
0057 100 CALL FPROR(10,FILNOTFND)
0058 GOTO 50
0059 ENL
```


NEXTFILE

 M 7
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 DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
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PROGRAM SECTIONS

Name	Bytes	Attributes
0 %CODE	109	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	10	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	80	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64747	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	NEXTFILE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000008	I*4	FILNOTFND	2-00000004	I*4	I
4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
0-00000009	50	1-00000004	99'	0-00000063	100	0-0000005E	300

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	ERROR		FOR\$CLOSE		FOR\$OPEN

```

0001 C
0002 C
0003 C
0004 SUBROUTINE GETMSG
0005 INCLUDE 'SRC$:CVTMSGCOM'
0006 LOGICAL*1 TEXT(128)
0007 LOGICAL*1 GETNUM,GETIDENT,GENCMP,UNBLNK,IDENT
0008 LOGICAL*1 IDSTR(20)
0009 LOGICAL*1 VECT(7)
0010 LOGICAL*1 NEED BLANK
0011 LOGICAL*1 FACNAM(MAXSYMSIZ)
0012 LOGICAL*1 LITERAL_NAME(MAXSYMSIZ)
0013
0014 C
0015 C
0016 C
0017 OUTPUT .LITERAL IF "MSG" NOT FOUND TO SIGNIFY MESSAGE DEFINITION
0018
0019 CALL CONCAT(PREFIX,SYMBOL_NAME,LITERAL_NAME)
0020 COL=COL+1
0021 IF (.NOT.GETIDENT().OR..NOT.GENCMP(NAME,%REF('MSG')) THEN
0022     CALL CONCAT(PREFIX,%REF('FACILITY'),NAME)
0023     IF (IDENT(NAME,LITERAL_NAME)) RETURN
0024     CALL BUFFER(%REF('LITERAL'))
0025     CALL BUFFER(LITERAL_NAME)
0026     CALL BUFFER(%REF('='))
0027     CALL BUFNUM(CODE)
0028     CALL OUTPUT_LINE
0029     RETURN
0030 END IF
0031
0032 C
0033 C
0034 C
0035 IF THE FACILITY LINE HAS NOT YET BEEN OUTPUT, THEN
0036 OUTPUT IT NOW.
0037
0038 NEED BLANK=.FALSE.
0039 FACNUM=(CODE.AND.'0FFF0000'X)/2**16
0040 CALL MOVNAM(FACILITIES(1,FACNUM+1),FACNAM)
0041 IF (FACNUM.EQ.LASTFACNUM.AND.IDENT(PREFIX,LASTPREFIX)) GOTO 20
0042 IF (IDENT(MACRO_NAME,%REF('SHR')) CALL MOVNAM(MACRO_NAME,FACNAM)
0043 CALL BUFFER(%REF('FACILITY'))
0044 CALL BUFFER(FACNAM)
0045 CALL BUFFER(%REF(''))
0046 CALL BUFNUM(FACNUM)
0047 IF ((CODE.AND.'8000'X).EQ.0) CALL BUFFER(%REF('/SHARED'))
0048 IF (CODE.GE.0) CALL BUFFER(%REF('/SYSTEM'))
0049 CALL CONCAT(FACNAM,%REF('$'),NAME)
0050 IF (.NOT.IDENT(NAME,PREFIX)) THEN
0051     CALL BUFFER(%REF('/PREFIX='))
0052     CALL BUFFER(PREFIX)
0053 END IF
0054 IF (.NOT.IDENT(FACNAM,MACRO_NAME).OR.LENGTH(MACRO_SUFFIX).NE.0) THEN
0055     CALL BUFFER(%REF('7MACRO='))
0056     CALL BUFFER(%REF('$'))
0057     CALL BUFFER(MACRO_NAME)
0058     IF (LENGTH(MACRO_SUFFIX).NE.0) THEN
0059         CALL BUFFER(MACRO_SUFFIX)
0060     ELSE
0061         CALL BUFFER(%REF('DEF'))
0062     END IF
0063 END IF
0064
0065 C
0066 C
0067 C
0068 END IF
0069
0070 C
0071 C
0072 C
0073 C
0074 C
0075 C
0076 C
0077 C
0078 C
0079 C
0080 C
0081 C
0082 C
0083 C
0084 C
0085 C
0086 C
0087 C
0088 C
0089 C
0090 C
0091 C
0092 C
0093 C
0094 C
0095 C
0096 C
0097 C
0098 C
0099 C
0100 C

```



```

0101 CALL OUTPUT_LINE
0102 CALL MOVNAM(PREFIX, LASTPREFIX)
0103 LASTFACNUM = FACNUM
0104 CURNUM = 1
0105 CURSEV = 7
0106 NEED_BLANK = .TRUE.
0107 CONTINUE
20
C
C
0108 IF THE SEVERITY HAS CHANGED, OUTPUT A SEVERITY STATEMENT
0109
0110 IF ((CODE.AND.7).NE.CURSEV) THEN
0111     CURSEV = CODE.AND.7
0112     IF (.NOT.NEED_BLANK) CALL OUTPUT_LINE
0113     CALL BUFFER(%REF('SEVERITY'))
0114     IF (CURSEV.EQ.0) CALL BUFFER(%REF('WARNING'))
0115     IF (CURSEV.EQ.1) CALL BUFFER(%REF('SUCCESS'))
0116     IF (CURSEV.EQ.2) CALL BUFFER(%REF('ERROR'))
0117     IF (CURSEV.EQ.3) CALL BUFFER(%REF('INFORMATIONAL'))
0118     IF (CURSEV.EQ.4) CALL BUFFER(%REF('FATAL'))
0119     IF (CURSEV.GE.5.AND.CURSEV.LE.7) CALL BUFFER(%REF('?UNKNOWN?'))
0120     CALL OUTPUT_LINE
0121     NEED_BLANK = .TRUE.
0122
0123 END IF
C
C
0124 IF THE MESSAGE NUMBER IS NOT PREV+1, THEN OUTPUT A .BASE STATEMENT
0125
0126 IF ((CODE.AND.'7FF8'X)/2**3.NE.CURNUM) THEN
0127     CURNUM = (CODE.AND.'7FF8'X)/2**3
0128     IF (.NOT.NEED_BLANK) CALL OUTPUT_LINE
0129     CALL BUFFER(%REF('.BASE'))
0130     CALL BUFNUM(CURNUM)
0131     CALL OUTPUT_LINE
0132     NEED_BLANK = .TRUE.
0133
0134 END IF
0135 CURNUM = CURNUM + 1
0136
0137 IF (NEED_BLANK) CALL OUTPUT_LINE
0138
0139 DO 50 I=1,7
0140     VECT(I)=0
0141     GOTO 200
150 IF (UNBLNK().NE.',') GOTO 1000
0143     COL=COL+1
200 IF (UNBLNK().EQ.'<') GOTO 800
0145 IF (GETIDENT()) GOTO 300
250 CALL ERROR(11,BADMSGSYNTAX)
0147 GOTO 2000
300 IF (GENCMP(NAME,%REF('IDENT')) GOTO 500
C IF (GENCMP(NAME,%REF('DETAIL')) GOTO 550
C IF (GENCMP(NAME,%REF('USERVAL')) GOTO 600
0151 IF (GENCMP(NAME,%REF('FAOCNT')) GOTO 650
C IF (GENCMP(NAME,%REF('LANG')) GOTO 700
0153 GOTO 250
500 IF (UNBLNK().NE.'=') GOTO 250
0155 COL=COL+1
0156 IF (GETIDENT().EQ.FALSE.) GOTO 250
0157 VECT(7)=LENGTH(NAME)

```

```
0158      CALL MOVNAM(NAME,IDSTR)
0159      GOTO 150
0160 550    ASSIGN 570 TO RETURN
0161      GOTO 750
0162 570    VECT(1)=NUM
0163      GOTO 150
0164 600    ASSIGN 620 TO RETURN
0165      GOTO 750
0166 620    VECT(3)=NUM
0167      GOTO 150
0168 650    ASSIGN 670 TO RETURN
0169      GOTO 750
0170 670    VECT(2)=NUM
0171      GOTO 150
0172 700    ASSIGN 720 TO RETURN
0173      GOTO 750
0174 720    VECT(5)=NUM
0175      GOTO 150
0176
0177 750    IF (UNBLNK().NE.'=') GOTO 250
0178        COL=COL+1
0179        IF (GETNUM().EQ..FALSE.) GOTO 250
0180        GOTO RETURN
0181
0182 800    COL=COL+1
0183        IF (IDFLAG.EQ..FALSE..OR.VECT(7).NE.0) GOTO 830
0184        VECT(7)=LENGTH(SYMBOL_NAME)
0185        DO 820 I=1,MAXSYMSIZ
0186        IDSTR(I)=SYMBOL_NAME(I)
0187        IF (IDSTR(I).EQ.0) GOTO 830
0188 820    CONTINUE
0189        CALL ERROR(12,IDTOOLONG)
0190 830    TMPPTR=1
0191 845    IF (LINE(COL).EQ.'>') GOTO 900
0192 850    TEXT(TMPPTR)=LINE(COL)
0193        TMPPTR=TMPPTR+1
0194        COL=COL+1
0195        IF (COL.LE.120) GOTO 845
0196        GOTO 250
0197 900    COL=COL+1
0198        IF (LINE(COL).EQ.'>') GOTO 850
0199        TEXT(TMPPTR)=0
0200        GOTO 150
0201
0202 1000   IF (UNBLNK().NE.';' .AND. UNBLNK().NE.0) GOTO 250
0203        CALL BUFFER(XREF(' '))
0204        CALL BUFFER(SYMBOL_NAME)
0205        IF (OUTCOL.LT.9) THEN
0206            CALL BUFFER(XREF(' '))
0207        ELSE
0208            CALL BUFFER(XREF(' '))
0209        END IF
0210        DO 1010 I=1,LENGTH(TEXT)
0211        IF (TEXT(I).EQ.'>' .OR. TEXT(I).EQ.'<') GOTO 1020
0212 1010   CONTINUE
0213        CALL BUFFER(XREF('<'))
0214        CALL BUFFER(TEXT)
```

GETMSG

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VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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```
0215      CALL BUFFER(%REF('>'))
0216      GOTO 1030
0217 1020    CALL BUFFER(%REF(''))
0218      CALL BUFFER(TEXT)
0219      CALL BUFFER(%REF(''))
0220 1030    IF (VECT(2).NE.0) THEN
0221          CALL BUFFER(%REF('/FAO='))
0222          CALL BUFNUM(VECT(2))
0223      END IF
0224      IF (VECT(7).NE.0) THEN
0225          CALL BUFFER(%REF('/IDENT='))
0226          CALL BUFFER(IDSTR)
0227      END IF
0228      CALL OUTPUT_LINE
0229
0230 2000    RETURN
0231      END
```

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	1323	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	211	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	764	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	66846	

ENTRY POINTS

Address	Type	Name
0-00000000		GETMSG

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-000000E4	I*4	BADMSGSYNTAX	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-000000DC	I*4	FACNUM
2-000000E0	I*4	I	2-000000EC	I*4	IDFLAG	2-000000F0	I*4	IDTOOLONG	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-000000DB	L*1	NEED BLANK	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG	2-000000E8	I*4	RETURN	2-000000F4	I*4	TMPPTR			

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
2-00000098	L*1	FACNAM	32	(32)
3-000000E4	L*1	FSPEC	80	(80)
2-00000080	L*1	IDSTR	20	(20)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
2-000000BB	L*1	LITERAL_NAME	32	(32)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)
2-00000000	L*1	TEXT	128	(128)
2-00000094	L*1	VECT	7	(7)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-000001AB	20	**	50	0-000002A8	150	0-000002BE	200	0-000002D9	250	0-000002E5	300
0-000002FF	500	**	550	0-00000337	570	**	600	0-00000342	620	0-0000034D	650
0-00000357	670	**	700	0-00000362	720	0-0000036D	750	0-0000039D	800	**	820
0-000003DC	830	0-000003E0	845	0-000003F1	850	0-00000420	900	0-00000443	1000	**	1010
0-000004DA	1020	0-000004F5	1030	0-0000052A	2000						

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
L*1	BUFFER GETNUM	L*1	BUFNUM IDENT	I*4	CONCAT LENGTH		ERROR MOVNAM	L*1	GENCMP OUTPUT_LINE
								L*1	GETIDENT UNBLNK

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VAX-11 FORTRAN V3.4-56 Page 21
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

```
0001 C
0002 C
0003 C
0004 SUBROUTINE STRUCT
0005 INCLUDE 'SRC$CVTMSG.COM'
0006 LOGICAL*1 GETIDENT, UNBLNK, GETNUM, GETLIN
0007 IF (GETIDENT().EQ..FALSE.) GOTO 100
0008 CALL MOVNAM(NAME, MACRO_NAME)
0009 MACRO_SUFFIX(1)=0
0010 100 IF (UNBLNK().EQ.';' .OR. UNBLNK().EQ.0) GOTO 300
0011 IF (UNBLNK().NE.';') GOTO 200
0012 COL=COL+1
0013 IF (GETIDENT().EQ..FALSE.) GOTO 200
0014 CALL MOVNAM(NAME, MACRO_SUFFIX)
0015 IF (UNBLNK().EQ.';' .OR. UNBLNK().EQ.0) GOTO 300
0016 200 CALL ERROR(1, SYNTAX)
0017 300 IF (GETLIN().EQ..FALSE.) GOTO 800
0018 IF (UNBLNK().EQ.';') GOTO 300
0019 IF (UNBLNK().EQ.0) GOTO 300
0020 IF (UNBLNK().EQ.'E') GOTO 900
0021 IF (UNBLNK().EQ.'C') GOTO 500
0022 IF (UNBLNK().EQ.'K') GOTO 500
0023 IF (UNBLNK().EQ.'V') GOTO 600
0024 IF (UNBLNK().EQ.'F') GOTO 300
0025 IF (UNBLNK().EQ.'S') GOTO 300
0026 IF (UNBLNK().EQ.'L') GOTO 300
0027 IF (UNBLNK().EQ.'M') GOTO 300
0028 IF (UNBLNK().EQ.'P') GOTO 300
0029 CALL ERROR(7, UNRECOGNIZE)
0030 GOTO 300
0031
0032 500 COL=COL+1
0033 CALL EVALC
0034 GOTO 300
0035
0036 600 CALL SKIPV
0037 GOTO 300
0038
0039 800 CALL ERROR(8, MISSINGEND)
0040 RETURN
0041
0042 900 CALL BUFFER(%REF(' .END'))
0043 CALL OUTPUT_LINE
0044 RETURN
0045 END
```

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PROGRAM SECTIONS

Name	Bytes	Attributes									
0 SCODE	372	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 SPDATA	18	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 SLOCAL	92	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		65030									

ENTRY POINTS

Address	Type	Name
0-00000000		STRUCT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	L*1	GETNUM	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-0000000C	I*4	MISSINGEND	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG	2-00000004	I*4	SYNTAX	2-00000008	I*4	UNRECOGNIZE			

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-00000023 0-00000164	100 900	0-0000007C	200	0-00000084	300	0-00000141	500	0-00000151	600	0-0000015B	800

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
	BUFFER		ERROR		EVALC	L*1	GETIDENT	L*1	GETLIN
	OUTPUT_LINE		SKIPV	L*1	UNBLNK				MOVNAM

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001      C
0002      C
0003      C
0004      EVALUATE MDL C STATEMENT
0005      SUBROUTINE EVALC
0006      INCLUDE 'SRC$CVTMSGCOM'
0007      LOGICAL*1 GENCMP,UNBLNK
0008      IF (UNBLNK().EQ.'<') GOTO 100
0009      CALL GETCVAL
0010      RETURN
0011      100 COL=COL+1
0012      CALL GETCLST
0013      RETURN
0014      END
```

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01
01
01
01
01
01
01

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	43	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	12	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG

Total Space Allocated

64603

ENTRY POINTS

Address	Type	Name
0-00000000		EVALC

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	L*1	GENCMP	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-00000010	100

EVALC

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
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FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	GETCLST		GETCVAL	L*1	UNBLNK


```

0001 C
0002 C
0003 C
0004 SUBROUTINE GETCLST
0005 INCLUDE 'SRC$CVTMSGCOM'
0006 LOGICAL*1 GETIDENT,UNBLNK,GETNUM,GETLIN
0007 BASE=0
0008 INCR=1
0009 CALL MOVNAM(MACRO NAME,PREFIX)
0010 IF (GETIDENT().EQ..FALSE.) GOTO 100
0011 CALL MOVNAM(NAME,PREFIX)
0012 100 IF (UNBLNK().NE.' ') GOTO 200
0013 COL=COL+1
0014 IF (GETIDENT().EQ..FALSE.) GOTO 200
0015 IF (LENGTH(PREFIX)+LENGTH(NAME).GE.MAXSYMSIZ) THEN
0016     CALL ERROR(2,NAMTOOLONG)
0017     PREFIX(1)=0
0018 END IF
0019 CALL CONCAT(PREFIX,NAME,PREFIX)
0020 GOTO 250
0021 200 CALL CONCAT(PREFIX,REF('$C '),PREFIX)
0022 250 IF (UNBLNK().NE.' ') GOTO 400
0023 COL=COL+1
0024 IF (GETNUM()) BASE=NUM
0025 IF (UNBLNK().NE.' ') GOTO 400
0026 COL=COL+1
0027 IF (GETNUM().EQ..FALSE.) GOTO 500
0028 INCR=NUM
0029 400 IF (UNBLNK().EQ.' ' OR UNBLNK().EQ.0) GOTO 700
0030 500 CALL ERROR(1,SYNTAX)
0031 700 IF (GETLIN().NE..TRUE.) GOTO 1500
0032 IF (UNBLNK().EQ.'>') GOTO 1600
0033 C IF (GETIDENT().NE..TRUE.) GOTO 900
0034 IF (.NOT.GETIDENT()) GOTO 700
0035 CALL MOVNAM(NAME,SYMBOL NAME)
0036 IF (UNBLNK().EQ.' ') GOTO 800
0037 CODE=BASE
0038 BASE=BASE+INCR
0039 GOTO 850
0040 800 IF (BASE.NE.0 OR INCR.NE.1) CALL ERROR(5,BASE)
0041 COL=COL+1
0042 IF (GETNUM()) GOTO 820
0043 CALL ERROR(3,NUMBER)
0044 820 CODE=NUM
0045 850 CONTINUE
0046 900 IF (UNBLNK().NE.' ' AND UNBLNK().NE.0) GOTO 500
0047 CALL GETMSG
0048 GOTO 700
0049 1500 CALL ERROR(6,NOCLOSEANGLE)
0050 1600 RETURN
0051 END

```

PROGRAM SECTIONS

Name	Bytes	Attributes									
0 \$CODE	422	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 \$PDATA	24	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 \$LOCAL	176	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		65170									

ENTRY POINTS

Address	Type	Name
0-00000000		GETCLST

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000000	I*4	BASE	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000004	I*4	INCR
4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM	2-00000008	I*4	NAMTOOLONG	2-00000014	I*4	NOCLOSEANGLE
2-00000010	I*4	NONUMBER	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-0000000C	I*4	SYNTAX									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000002B	100	0-0000007C	200	0-00000084	250	0-000000D0	400	0-000000E9	500	0-000000F1	700
0-0000013E	800	0-0000016B	820	0-00000176	850	**	900	0-0000019C	1500	0-000001A5	1600

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
1-4	CONCAT LENGTH		ERROR MOVNAM	L*1 L*1	GETIDENT UNBLNK	L*1	GETLIN		GETMSG
								L*1	GETNUM

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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```
0001 C
0002 C
0003 C
0004 ROUTINE TO HANDLE MDL 'C SYMBOL,VALUE' SYNTAX
0005
0006 SUBROUTINE GETCVAL
0007 INCLUDE 'SRC$CVTMSG.COM'
0008 LOGICAL*1 GETIDENT,UNBLNK,GETNUM
0009 CALL CONCAT(MACRO_NAME,XREF('SC '),PREFIX)
0010 IF (GETIDENT().EQ..FALSE.) GOTO 100
0011 CALL MOVNAM(NAME,SYMBOL_NAME)
0012 IF (UNBLNK().NE.' ') GOTO 100
0013 COL=COL+1
0014 IF (GETNUM().EQ..FALSE.) GOTO 100
0015 CODE=NUM
0016 IF (UNBLNK().NE.';' .AND. UNBLNK().NE.0) GOTO 100
0017 CALL GETMSG
0018 RETURN
0019 100 CALL ERROR(1,SYNTAX)
0020 RETURN
0021 END
```

GETCVAL

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5-Sep-1984 15:13:15VAX-11 FORTRAN V3.4-56 Page 31
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	121	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	8	PIC CON REL LCL SHR NOEXE RD NCWRT LONG
2 \$LOCAL	52	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64729	

ENTRY POINTS

Address	Type	Name
0-00000000		GETCVAL

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-00000000	I*4	SYNTAX

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
0-00000070	100

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
L*1	CONCAT UNBLNK		ERROR	L*1	GETIDENT		GETMSG	L*1	GETNUM
									MOVNAM

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

```

0001      C
0002      C      SKIP ALL LINES WHICH ARE PART OF THE MDL V STATEMENT
0003      C
0004      SUBROUTINE SKIPV
0005      INCLUDE 'SRC$:CVTMSGCOM'
0009      LOGICAL*1 GETLIN,UNBLNK
0010      100      IF (GETLIN().NE.,TRUE.) GOTO 300
0011      IF (UNBLNK().EQ.'>') RETURN
0012      GOTO 100
0013      300      CALL ERROR(6,NOCLOSEANGLE)
0014      RETURN
0015      END

```

SKIPV

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16-Sep-1984 02:16:11
5-Sep-1984 15:13:15VAX-11 FORTRAN V3.4-56 Page 34
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	46	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	24	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64622	

ENTRY POINTS

Address	Type	Name
0-00000000		SKIPV

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
2-00000000	I*4	NOCLOSEANGLE	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label
0-00000009	100	0-00000025	300

SKIPV

10-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 35

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	ERROR	L*1	GETLIN	L*1	UNBLNK

```

0001 C
0002 C OUTPUT AN ERROR MESSAGE
0003 C
0004 SUBROUTINE ERROR(MSGID)
0005 INCLUDE 'SRC$:CVTMSGCOM'
0049 C OUTPUT CONTENTS OF 'LINE' VIA PRINT
0050 C AND ERROR MESSAGE
0051 TYPE 99
0052 99 FORMAT('$XSYMSG-E-')
0053 GOTO (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15),MSGID
0054 TYPE 1000
0055 GOTO 200
0056 1000 FORMAT('+error in error processing')
0057 1 TYPE 101
0058 GOTO 200
0059 101 FORMAT('+syntax error')
0060 2 TYPE 102
0061 GOTO 200
0062 102 FORMAT('+symbol or string too long')
0063 3 TYPE 103
0064 GOTO 200
0065 103 FORMAT('+missing value')
0066 4 TYPE 104
0067 GOTO 200
0068 104 FORMAT('+line too long')
0069 5 TYPE 105
0070 GOTO 200
0071 105 FORMAT('+start or increment value error')
0072 6 TYPE 106
0073 GOTO 200
0074 106 FORMAT('+missing close angle bracket')
0075 7 TYPE 107
0076 GOTO 200
0077 107 FORMAT('+unrecognizable statement type')
0078 8 TYPE 108
0079 GOTO 200
0080 108 FORMAT('+missing end statement')
0081 9 TYPE 109
0082 GOTO 210
0083 109 FORMAT('+can''t open FILES.DAT')
0084 10 TYPE 110,FSPEC
0085 GOTO 210
0086 110 FORMAT('+can''t open ',80A1)
0087 11 TYPE 111
0088 GOTO 200
0089 111 FORMAT('+syntax error in message definition')
0090 12 TYPE 112
0091 GOTO 200
0092 112 FORMAT('+message identifier too long')
0093 13 TYPE 113
0094 GOTO 200
0095 113 FORMAT('+message identified by value is already in use')
0096 14 TYPE 114
0097 GOTO 200
0098 114 FORMAT('+facility name too long')
0099 15 TYPE 115
0100 GOTO 210

```


ERROR

K 9
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 37
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

```
0101 115 FORMAT('+can't open SRCDS:[1,2]SUBSYSIDS.DAT')
0102 200 TYPE 97 FSPEC
0103 97  FORMAT(1X,'in file ',80a1)
0104     TYPE 98,(LINE(K),K=1,LENGTH(LINE))
0105 98  FORMAT(1X,120A1)
0106 210 ERRCNT=ERRCNT+1
0107     END
```

GE
PR

EN

VA

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A
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LA

ERROR

L 9
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	591	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	495	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	28	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	65662	

ENTRY POINTS

Address	Type	Name
0-00000000		ERROR

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	2-00000000	I*4	K
6-00000090	I*4	LASTFACNUM	AP-00000004a	I*4	MSGID	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000005D	1	0-00000077	2	0-00000091	3	0-000000AB	4	0-000000C5	5	0-000000DF	6
0-000000F9	7	0-00000113	8	0-0000012D	9	0-00000147	10	0-0000016B	11	0-00000184	12
0-0000019D	13	0-000001B6	14	0-000001CF	15	1-000001D7	97'	1-000001E8	98'	1-00000000	99'
1-0000002B	101'	1-0000003B	102'	1-00000058	103'	1-00000069	104'	1-0000007A	105'	1-0000009C	106'

ERROR

M 9
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
Page 39

1-000000BB	107'	1-000000DC	108'	1-000000F5	109'	1-0000010D	110'	1-00000120	111'	1-00000146	112'
1-00000165	113'	1-00000196	114'	1-000001B0	115'	0-000001E8	200	0-00000248	210	1-0000000E	1000'

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name
I*4 LENGTH

```

0001      C
0002      C
0003      C
0004      LOGICAL FUNCTION GETNUM*1
0005      INCLUDE 'SRC$:CVTMSGCOM'
0006      LOGICAL*1 GETVAL
0007      LOGICAL*1 BINOPS(8)
0008      DATA BINOPS/'+', '-', '*', '/', 'E', '!', '\', 'Q', '/'
0009      GETNUM=.FALSE.
0010      NUM=0
0011      IF (GETVAL().EQ..FALSE.) GOTO 300
0012      GETNUM=.TRUE.
0013      NUM=BINVAL
0014      DO 200 I=1,8
0015      IF (LINE(COL).EQ.BINOPS(I)) GOTO 400
0016      CONTINUE
0017      RETURN
0018      400      COL=COL+1
0019      IF (GETVAL().EQ..TRUE.) GOTO 500
0020      CALL ERROR(3,MISSINGVALUE)
0021      GOTO 300
0022      500      GOTO (610,620,630,640,650,660,670,680),I
0023      610      NUM=NUM+BINVAL
0024      GOTO 100
0025      620      NUM=NUM-BINVAL
0026      GOTO 100
0027      630      NUM=NUM*BINVAL
0028      GOTO 100
0029      640      NUM=NUM/BINVAL
0030      GOTO 100
0031      650      NUM=NUM.AND.BINVAL
0032      GOTO 100
0033      660      NUM=NUM.OR.BINVAL
0034      GOTO 100
0035      670      NUM=NUM.XOR.BINVAL
0036      GOTO 100
0037      680      NUM=NUM*2**BINVAL
0038      GOTO 100
0039      END

```

PROGRAM SECTIONS

Name	Bytes	Attributes									
0 %CODE	246	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 %PDATA	4	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 %LOCAL	40	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64838									

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETNUM

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-0000000C	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-00000010	I*4	MISSINGVALUE	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	L*1	BINOPS	8	(8)
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000002D	100	**	200	0-0000004A	300	0-0000004F	400	0-0000006B	500
0-0000008C	620	0-00000099	630	0-000000A6	640	0-000000B4	650	0-000000C5	660
0-000000E1	680								0-0000007F 610 0-000000D3 670

GETNUM

C 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 42
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR	L*1	GETVAL

```
0001      C      GET A TERM VALUE (USED BY GETNUM)
0002      C
0003      C
0004      LOGICAL FUNCTION GETVAL*1
0005      INCLUDE 'SRC$CVTMSGCOM'
0006      LOGICAL*1 UNBLNK,TMP
0007      SIGN=0
0008      BINVAL=0
0009      GETVAL=.FALSE.
0010      IF (UNBLNK().NE.'-') GOTO 100
0011      SIGN=1
0012      COL=COL+1
0013      IF (LINE(COL).NE.'*') GOTO 180
0014      IF (LINE(COL+1).NE.'X') GOTO 180
0015      DO 150 COL=COL+2,120
0016      TMP=LINE(COL)
0017      IF ((TMP.LE.'9').AND.(TMP.GE.'0')) GOTO 130
0018      IF ((TMP.GT.'F').OR.(TMP.LT.'A')) GOTO 400
0019      TMP=TMP-'A'+'9'+1
0020      GETVAL=.TRUE.
0021      BINVAL=BINVAL*16+(TMP-'0')
0022      CONTINUE
0023      GOTO 300
0024      DO 200 COL=COL,120
0025      IF (LINE(COL).LT.'0') GOTO 400
0026      IF (LINE(COL).GT.'9') GOTO 400
0027      GETVAL=.TRUE.
0028      BINVAL=BINVAL*10+(LINE(COL)-'0')
0029      CONTINUE
0030      CALL ERROR(4,TOOLONG)
0031      GETVAL=.FALSE.
0032      IF (SIGN.EQ.1) BINVAL=-BINVAL
0033      RETURN
0034      END
```

GETVAL

E 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15VAX-11 FORTRAN V3.4-56
DISK&VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	283	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	32	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64867	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETVAL

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-00000004	I*4	SIGN
2-00000000	L*1	TMP	2-00000008	I*4	TOOLONG						

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-0000002B	100	0-0000008E	130	**	150	0-000000AF	180	**	200
0-00000106	400							0-000000FB	300

GETVAL

F 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

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DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	ERROR	L*1	UNBLNK

G 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 46
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;

```
0001 C
0002 C
0003 C
0004 LOGICAL FUNCTION GETIDENT*1
0005 INCLUDE 'SRC$CVTMSGCOM'
0006 LOGICAL*1 UNBLNK
0007 I=1
0008 GETIDENT=.FALSE.
0009 IF (UNBLNK().EQ.' '.OR.UNBLNK().EQ.0) GOTO 400
0010 DO 200 COL=COL,120
0011 IF (LINE(COL).EQ.'$') GOTO 100
0012 IF (LINE(COL).EQ.' ') GOTO 100
0013 IF ((LINE(COL).GE.'A').AND.(LINE(COL).LE.'Z')) GOTO 100
0014 IF (GETIDENT.EQ..FALSE.) GOTO 400
0015 IF ((LINE(COL).LT.'0').OR.(LINE(COL).GT.'9')) GOTO 400
0016 100 GETIDENT=.TRUE.
0017 C TRUNCATE ANY TOKENS GREATER THAN MAXTOKSIZ
0018 IF (I.GE.MAXTOKSIZ) GOTO 200
0019 NAME(I)=LINE(COL)
0020 I=I+1
0021 200 CONTINUE
0022 CALL ERROR(4,TOOLONG)
0023 400 NAME(I)=0
0024 RETURN
0025 END
```


GETIDENT

H 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
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PROGRAM SECTIONS

Name	Bytes	Attributes
0 SCODE	199	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	32	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64783	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETIDENT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000004	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000008	I*4	TOOLONG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label
0-0000007F	100	0-000000A1	200	0-000000B8	400

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
ERROR		L+1	UNBLNK

J 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 49
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001      C
0002      C
0003      C
0004      FUNCTION TO COMPARE 2 STRINGS GENERICALLY
0005      LOGICAL FUNCTION GENCMP*1(STRNG1,STRNG2)
0006      LOGICAL*1 STRNG1(100),STRNG2(100)
0007      GENCMP=.FALSE.
0008      IF (STRNG1(1).EQ.0.OR.STRNG2(1).EQ.0) GOTO 300
0009      DO 100 I=1,100
0010      IF (STRNG1(I).EQ.0.OR.STRNG2(I).EQ.0) GOTO 200
0011      IF (STRNG1(I).NE.STRNG2(I)) GOTO 300
0012      100 CONTINUE
0013      200 GENCMP=.TRUE.
0014      300 RETURN
      END
```

GENCMP

K 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	92	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	48	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	140	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GENCMP

VARIABLES

Address	Type	Name
2-00000004	I*4	I

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)

LABELS

Address	Label	Address	Label	Address	Label
**	100	0-00000053	200	0-00000057	300

L 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 51
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001      C      FUNCTION TO COMPARE 2 STRINGS EXACTLY
0002      C
0003      C
0004      LOGICAL FUNCTION IDENT*1(STRNG1,STRNG2)
0005      LOGICAL*1 STRNG1(100),STRNG2(100)
0006      IDENT=.FALSE.
0007      DO 100 I=1,100
0008      IF (STRNG1(I).NE.STRNG2(I)) GOTO 300
0009      IF (STRNG1(I).EQ.0.AND.STRNG2(I).EQ.0) GOTO 200
0010      IF (STRNG1(I).EQ.0.OR.STRNG2(I).EQ.0) GOTO 300
0011      100 CONTINUE
0012      200 IDENT=.TRUE.
0013      300 RETURN
0014      END
```

IDENT

M 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 52

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	92	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	48	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	140	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	IDENT

VARIABLES

Address	Type	Name
2-00000004	I*4	I

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)

LABELS

Address	Label	Address	Label	Address	Label
**	100	0-00000053	200	0-00000057	300

N 10
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
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```
0001 C
0002 C
0003 C
0004 SUBROUTINE CONCAT(STRNG1,STRNG2,STRNG3)
0005 INCLUDE 'SRC$:CVTMSG.COM'
0006 LOGICAL*1 STRNG1(100),STRNG2(100),STRNG3(100),STRNG4(100)
0007 DO 100 I=1,99
0008 STRNG4(I)=STRNG2(I)
0009 IF (STRNG4(I).EQ.0) GOTO 200
0010 100 CONTINUE
0011 CALL ERROR(2,TOOLONG)
0012 GOTO 600
0013 200 DO 300 I=1,99
0014 STRNG3(I)=STRNG1(I)
0015 IF (STRNG3(I).EQ.0) GOTO 400
0016 300 CONTINUE
0017 CALL ERROR(2,TOOLONG)
0018 GOTO 600
0019 400 DO 500 J=1,99
0020 STRNG3(I-1+J)=STRNG4(J)
0021 IF (STRNG3(I-1+J).EQ.0) GOTO 600
0022 500 CONTINUE
0023 CALL ERROR(2,TOOLONG)
0024 600 RETURN
0025 END
```

PROGRAM SECTIONS

Name	Bytes	Attributes									
0 SCODE	164	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 SPDATA	4	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 SLOCAL	184	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64900									

ENTRY POINTS

Address	Type	Name
0-00000000		CONCAT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000064	I*4	I	4-00000008	I*4	INDEX
2-0000006C	I*4	J	6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG	2-00000068	I*4	TOOLONG						

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004	L*1	STRNG1	100	(100)
AP-00000008	L*1	STRNG2	100	(100)
AP-0000000C	L*1	STRNG3	100	(100)
2-00000000	L*1	STRNG4	100	(100)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

CONCAT

C 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 55
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
**	100	0-0000004E	200	**	300	0-00000075	400	**	500
								0-000000A3	600

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

ERROR

D 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C      RETURN THE LENGTH OF AN ASCII STRING
0002 C
0003 C
0004      INTEGER FUNCTION LENGTH(STRNG)
0005      INCLUDE 'SRC$CVTMSGCOM'
0006      LOGICAL*1 STRNG(100)
0007      DO 100 LENGTH=1,100
0008      IF (STRNG(LENGTH).EQ.0) GOTO 200
0009      100 CONTINUE
0010      CALL ERROR(2,TOOLONG)
0011      200 LENGTH=LENGTH-1
0012      RETURN
0013      END
```

LENGTH

E 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 57

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	62	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	4	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NO SHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64654	

ENTRY POINTS

Address	Type	Name
0-00000000	I*4	LENGTH

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-000C0090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG	2-00000004	I*4	TOOLONG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004a	L*1	STRNG	100	(100)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label
**	100	0-00000036	200

LENGTH

F 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK&VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
Page 58

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
	ERROR

BU
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G 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 59
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 SUBROUTINE MOVNAM(STRNG1,STRNG2)
0005 INCLUDE 'SRC$:CVTMSG.COM'
0009 LOGICAL*1 STRNG1(100),STRNG2(100)
0050 DO 100 I=1,100
0051 STRNG2(I)=STRNG1(I)
0052 IF (STRNG2(I).EQ.0) GOTO 200
0053 100 CONTINUE
0054 CALL ERROR(2,TOOLONG)
0055 200 RETURN
0056 END
```

00
00
00
00
00
00
00
00
00
00

PROGRAM SECTIONS

Name	Bytes	Attributes									
0 \$CODE	69	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 \$PDATA	4	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 \$LOCAL	60	PIC	CON	REL	LCL	NO	SHR	NOEXE	RD	WRT	LONG
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64681									

ENTRY POINTS

Address	Type	Name
0-00000000		MOVNAM

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000004	I*4	TOOLONG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004a	L*1	STRNG1	100	(100)
AP-00000008a	L*1	STRNG2	100	(100)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

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16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 61
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

Address	Label	Address	Label
**	100	0-00000044	200

Type	Name
	ERROR

[illegible]

PR1

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16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
Page 62

```
0001      C
0002      C
0003      C
0004      LOGICAL FUNCTION UNBLNK*1
0005      INCLUDE 'SRC$:CVTMSGCOM'
0049      IF (COL.GT.120) GOTO 150
0050      DO 100 COL=COL,120
0051      IF (LINE(COL).GE.'11'.AND.LINE(COL).LE.'14') GOTO 100
0052      IF (LINE(COL).NE.' ') GOTO 200
0053      100 CONTINUE
0054      150 COL=121
0055      200 UNBLNK=LINE(COL)
0056      RETURN
0057      END
```

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PROGRAM SECTIONS

Name	Bytes	Attributes									
0 \$CODE	92	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
2 \$LOCAL	4	PIC	CON	REL	LCL	NO	SHR	NOEXE	RD	WRT	LONG
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64644									

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	UNBLNK

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	6-00000090	I*4	LASTFACNUM
4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG			

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label
0-0000003E	100	0-00000047	150	0-0000004C	200

L 11
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 64
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001      C
0002      C
0003      C
0004      LOGICAL*1 FUNCTION GETLIN
0005      INCLUDE 'SRC$CVTMSGCOM'
0006      LOGICAL*1 UNBLNK
0007      READ(1,99,END=100) LEN,(LINE(K),K=1,LEN)
0008      99  FORMAT(Q,120A1)
0009      LINE(LEN+1)=0
0010      COL=1
0011      GETLIN=.TRUE.
0012      C
0013      C
0014      C
0015      OUTPUT THE LINE IF COMMENT OR NULL LINE
0016      C
0017      C
0018      IF (UNBLNK().EQ.';' .OR. UNBLNK().EQ.0) THEN
0019          BIAS=OUTCOL+1-COL
0020          CALL BUFFER(LINE)
0021          IF (UNBLNK().EQ.';') OUTLINE(BIAS+COL) = '!'
0022          CALL OUTPUT_LINE
0023      END IF
0024      RETURN
0025      100  GETLIN=.FALSE.
0026      RETURN
0027      END
0028
```


PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	195	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	6	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	32	PIC CON REL LCL NO SHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64781	

ENTRY POINTS

Address	Type	Name
0-00000000	L*1	GETLIN

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-0000000C	I*4	BIAS	4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL
6-00000088	I*4	CURNUM	6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX
2-00000008	I*4	K	6-00000090	I*4	LASTFACNUM	2-00000004	I*4	LEN	4-00000000	I*4	NUM
6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG						

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label
1-00000000	99'	0-000000C0	100

GETLIN

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5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 66

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	BUFFER		OUTPUT_LINE	L*1	UNBLNK

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B 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 67
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 SUBROUTINE BUFFER(String)
0005 INCLUDE 'SRC$:CVTMSG.COM'
0006 LOGICAL*1 String(128)
0007 DO 10 I=1,128
0008 IF (String(I).EQ.0) GOTO 100
0009 IF (OUTCOL.GT.132) GOTO 200
0010 OUTCOL = OUTCOL+1
0011 OUTLINE(OUTCOL)=String(I)
0012 CONTINUE
0013 RETURN
0014 CALL ERROR(4,LINE_OVERFLOW)
0015 RETURN
0016 END
```

PROGRAM SECTIONS

Name	Bytes	Attributes									
0 \$CODE	88	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG	
1 \$PDATA	4	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG	
2 \$LOCAL	40	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG	
3 TEXT	324	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
4 VARS	24	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
5 LOGVAR	4	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
6 OUT	164	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
7 FACNAMS	64032	PIC	OVR	REL	GBL	SHR	NOEXE	RD	WRT	LONG	
Total Space Allocated		64680									

ENTRY POINTS

Address	Type	Name
0-00000000		BUFFER

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000000	I*4	I	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	2-00000004	I*4	LINE_OVERFLOW	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL
5-00000000	I*4	OUTFLAG									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
AP-00000004	L*1	STRING	128	(128)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label
**	10	0-0000004E	100	0-0000004F	200

BUFFER

D 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 69

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name
ERROR

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E 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
Page 70

```
0001      C
0002      C
0003      C
0004      SUBROUTINE BUFNUM(NUMBER)
0005      LOGICAL*1 CHARS(9)
0006      CHARACTER*8 STRING
0007      EQUIVALENCE (STRING(1:1),CHARS)
0008      CALL FOR$CNV_OUT_I(%VAL(NUMBER),STRING)
0009      CHARS(9)=0
0010      DO 10 I=1,8
0011      IF (CHARS(I).NE.' ') GOTO 20
0012      CONTINUE
0013      CALL BUFFER(%REF(CHARS(I)))
0014      RETURN
0015      END
```


BUFNUM

F 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK&VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1
Page 71

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	60	PIC CON REL LCL SHR EXE RD NOWRT LONG
2 \$LOCAL	44	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	104	

ENTRY POINTS

Address	Type	Name
0-00000000		BUFNUM

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000000	I*4	I	AP-00000004	I*4	NUMBER	2-00000000		CHAR STRING

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	L*1	CHARS	9	(9)

LABELS

Address	Label	Address	Label
**	10	0-0000002A	20

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	BUFFER		FOR\$CNV_OUT_I

G 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56 Page 72
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1

```
0001 C
0002 C
0003 C
0004 SUBROUTINE OUTPUT LINE
0005 INCLUDE 'SRC$CVTMSG.COM'
0006
0007 100 WRITE(2,100)(OUTLINE(K),K=1,OUTCOL)
0008
0009 FORMAT(128A1)
0010
0011 OUTCOL=0
0012
0013 RETURN
0014
0015 END
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	75	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	6	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	4	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64633	

ENTRY POINTS

Address	Type	Name
0-00000000		OUTPUT_LINE

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	4-00000008	I*4	INDEX	2-00000000	I*4	K
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label
1-00000000	100'

```

0001 C
0002 C      OPEN THE OUTPUT FILE
0003 C
0004 SUBROUTINE OPEN OUTPUT
0005 INCLUDE 'SRC$:CVTMSG.COM'
0006 LOGICAL*1 STRING(128)
0007 CLOSE (UNIT=2)
0008 CALL MOVNAM(FSPEC,STRING)
0009 DO 10 POS=LENGTH(STRING),1,-1
0010 IF (STRING(POS).EQ.'.') GOTO 20
0011 CONTINUE
0012 IF (STRING(POS).EQ.'.') CALL MOVNAM(XREF('.MSG'),STRING(POS))
0013 DO 30 POS=POS,1,-1
0014 IF (STRING(POS).EQ.'].OR.STRING(POS).EQ.'>')
0015 1 .OR.STRING(POS).EQ.':') GOTO 40
0016 CONTINUE
0017 POS=POS+1
0018 THE OUTPUT FILE WILL BE PUT IN THE DEFAULT DIRECTORY, SAME NAME, .MSG
0019 OPEN(UNIT=2,NAME=STRING(POS),TYPE='NEW',CARRIAGECONTROL='LIST',ERR=100)
0020 OUTCOL=0
0021 RETURN
0022 100 CALL ERROR(9,FILNOTFND)
0023 RETURN
0024 END

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	158	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	9	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	220	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 TEXT	324	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 VARS	24	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 LOGVAR	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
6 OUT	164	PIC OVR REL GBL SHR NOEXE RD WRT LONG
7 FACNAMS	64032	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	64935	

ENTRY POINTS

Address	Type	Name
0-00000000		OPEN_OUTPUT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
4-00000014	I*4	BINVAL	4-0000000C	I*4	CODE	4-00000004	I*4	COL	6-00000088	I*4	CURNUM
6-0000008C	I*4	CURSEV	4-00000010	I*4	ERRCNT	2-00000084	I*4	FILNOTFND	4-00000008	I*4	INDEX
6-00000090	I*4	LASTFACNUM	4-00000000	I*4	NUM	6-00000000	I*4	OUTCOL	5-00000000	I*4	OUTFLAG
2-00000080	I*4	POS									

ARRAYS

Address	Type	Name	Bytes	Dimensions
7-00000000	L*1	FACILITIES	64032	(32, 2001)
3-000000E4	L*1	FSPEC	80	(80)
6-00000094	L*1	LASTPREFIX	16	(16)
3-00000000	L*1	LINE	132	(132)
3-00000094	L*1	MACRO_NAME	16	(16)
3-00000134	L*1	MACRO_SUFFIX	16	(16)
3-000000A4	L*1	NAME	32	(32)
6-00000004	L*1	OUTLINE	132	(132)
3-00000084	L*1	PREFIX	16	(16)
2-00000000	L*1	STRING	128	(128)
3-000000C4	L*1	SYMBOL_NAME	32	(32)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
**	10	0-00000036	20	**	30	0-00000077	40
						0-00000095	100

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name
	ERROR		FOR\$CLOSE		FOR\$OPEN	I*4	LENGTH
							MOVNAM

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:CVTMSG/OBJ=OBJ\$:CVTMSG MSRC\$:CVTMSG

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)

/DEBUG=(NOSYMBOLS,TRACEBACK)

/STANDARD=(NOSYNTAX,NOSOURCE FORM)

/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)

/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

OPEN_OUTPUT

K 12
16-Sep-1984 02:16:11
5-Sep-1984 15:13:15

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[MSGFIL.SRC]CVTMSG.FOR;1 Page 76

COMPILATION STATISTICS

Run Time:	24.98 seconds
Elapsed Time:	88.10 seconds
Page Faults:	238
Dynamic Memory:	212 pages

0251 AH-BT13A-SE
VAX/VMS V4.0

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CONFIDENTIAL AND PROPRIETARY

MSGINT
MOD

SOLGENREQ
REQ

MSGDEF
SOL

CUTMSGCOM
FOR

CUTMSG
LIS

MSG
REQ

MAIN
LIS

LISTING
LIS